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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,807	11/21/2002	Shigefumi Odaohhara	JP920010333U	7978

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EXAMINER

LUK, LAWRENCE W

ART UNIT	PAPER NUMBER
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2187

DATE MAILED: 08/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/065,807	ODAOHHARA, SHIGEFUMI	
	Examiner	Art Unit	
	Lawrence W. Luk	2187	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 February 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 16-18 and 22-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 16-18 and 22-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/25/04; 2/22/05</u> | 6) <input type="checkbox"/> Other: _____ |

PD

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 16-18 and 22-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Szepesi (5,672,952).

Claim 1

As to claim 1, Szepesi disclose in figure 3A and 5B, apparatus comprising: a body which consumes power; a battery (**unit 14**) which supplies power to the body through a power line by discharging after being charged; a high-capacitor capacitor (**C1**, **figure 5B**) connected to the power line in parallel with the battery (**unit 14**); a switch (**unit 10**) for disconnecting or connecting the high-capacity capacitor (**C1**) from or to the power line by a circuit; and a controller (**unit 23**) for controlling operations of the switch (**unit 10**).

Claim 2

As to claim 2, Szepesi disclose in column 2, line 48 to column 3, line 5, the controller (**unit 23**) controls operations of the switch (**unit 10**) to disconnect the high-capacity capacitor by a circuit when the battery (**unit 14**) is disconnected from the body.

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Claim 3

As to claim 3, Szepesi disclose in figure 3A and 5B, column 2, line 48 to column 3, line 5, the controller **(unit 23)** controls operations of the switch **(unit 10)** to disconnect the high-capacity capacitor **(C1)** by a circuit when the body is powered off and/or the body is kept in a small-power-consumption mode.

Claims 4 and 26

As to claims 4 and 26, Szepesi disclose in figure 3A, column 3, lines 6-11, wherein the high capacity capacitor **(C1)** and the switch **(unit 10)** are integrated so that they can be set to the body.

Claim 16

As to claim 16, Szepesi disclose in column 9, lines 50-61, an electrical apparatus comprising; a cell **(unit 14)** for supplying power through a predetermined power line; and a high-capacity capacitor **(C1)** connected to the power line in parallel with the cell **(unit 14)** under a predetermined condition.

Claim 17

As to claim 17, Szepesi disclose in figure 3A, a switch **(unit 10)** for disconnecting or connecting the high-capacity capacitor from or to the power line by a circuit; and a CPU **(unit 23)** for controlling operations of the switch **(unit 10)**.

Claim 18

As to claim 18, Szepesi disclose in figure 3A, column 5, lines 10-25, the CPU **(unit 23)** detects a state in which the cell **(unit 14)** is not connected to the electrical apparatus or a state in which it is unnecessary to supply a peak power to the electrical

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apparatus when the cell **(unit 14)** is set to the electrical apparatus and controls operations of the switch **(unit 10)** based on a detected state.

Claim 22

As to claim 22, Szepesi disclose in figure 3A, column 5, lines 10-25, an electrical apparatus comprising: a cell **(unit 14)** for supplying power through a predetermined power line; a high capacity capacitor **(C1)** connected to the power line in parallel with the cell **(unit 14, see figure 5B)** under a predetermined condition; a switch **(unit 10)** for disconnecting of connecting the high-capacity capacitor **(C1)** from or to the power line by a circuit; and a CPU **(unit 23)** for controlling operations of the switch **(unit 10)**; wherein the CPU detects a state in which the cell **(unit 14)** is not connected to the electrical apparatus or a state in which it is unnecessary to supply a peak power to the electrical apparatus when the cell **(unit 14)** is set to the electrical apparatus and controls operations of the switch **(unit 10)** based on a detected state.

Claim 23

As to claim 23, Szepesi disclose in figure 3A, apparatus comprising: a body which consumes power; a battery **(unit 14)** which supplies power to the body through a power line by discharging after being charged; a switch **(unit 10)**; a high-capacity capacitor **(C1)** coupled in series with said switch **(unit 10)** to the power line, the series combination of said switch **(unit 10)** and said high-capacity capacitor **(C1)** being coupled in parallel with the battery **(unit 14)**; wherein the switch **(unit 10)** couples and decouples said high-capacity capacitor **(C1)** from and to the power line, and a controller

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(unit 23) for controlling operations of the switch (unit 10) and which acts to conditionally decouple the high-capacity capacitor (C1) from the power line.

Claim 24

As to claim 24, Szepesi disclose in column 2, line 48 to column 3, line 5, the controller (unit 23) controls operations of the switch (unit 10) to decouple the high-capacity capacitor (C1) in response to the battery (unit 14) being disconnected from the body.

Claim 25

As to claim 25, Szepesi disclose in column 2, line 48 to column 3, line 5, wherein the controller (unit 23) controls operations of the switch (unit 10) to decouple the high-capacity capacitor (C1) by a circuit in response to a reduced power state selected from the group consisting of a state in which the battery (unit 14) is powered off and a state in which the body is kept in a low-power-consumption mode.

3. RELEVANT ART CITED BY THE EXAMINER

The following prior art made of record and not relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure.

See **MPEP 707.05 (c)**.

The following references teach **a high-capacity capacitor connected to the power line in parallel with the battery.**

JP PATENT NUMBER**FIGURES**

11-26157

1, 2

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence W Luk whose telephone number is (571)272-2080. The examiner can normally be reached on 7 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding are (703) 746-7239, (571) 272-2100 for regular communication and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to receptionist whose telephone number is (571) 272-2100.

LWL
August 15, 2005

Lawrence Luk
examiner
8/15/05